

ANNAUNIVERSITY (CHENNAI)

QUESTION PAPER-JANUARY 2011

B.E. /B.Tech DEGREE EXAMINATION-JANUARY-2011

FIRST SEMESTER

186101-TECHNICAL ENGLISH-I

(Common to all branches)

(REGULATION 2010)

Time: Three hours

Maximum: 100 marks

Answer ALL questions

PART A-(10x2=20 Marks)

1. Match the words in column A with their meanings in column B: (4x1/2=2)

A	B
(a) Hazard	(iii) danger
(b) Consumption	(iv) use
(c) Sustainable	(v) able to continue over a period of time
(d) Critical	(i) very important

2. Change the following into passive voice: (2x1=2)

- (a) The government of India gives awards to outstanding scientists.
Ans: *Awards are given to outstanding scientists by the government of India.*
- (b) All sections of people discuss climate change today.
Ans: *Climate change is discussed by all sections of people today.*

3. Make opposite words from the following words, using appropriate prefixes: (4x1/2=2)

(a) Possible	- impossible
(b) Intelligible	- unintelligible
(c) Definite	- indefinite
(d) Courage	- discourage

4. Fill in the blanks with suitable tense form of verbs given in brackets: (4x1/2=2)

Accidents always happen (happen) at a point of time and space. Give the fatalities; it has been worked out (work out) to 0.00328 per cent of the total road user kilometers everyday along these stretches of highway. A small number really, but a massive loss if you think (think) of the lifetime earning potential of those who die (die) in these mishaps.

5. Fill in the blanks with suitable comparative adjective, using the words given in brackets: (4x1/2=2)

- (a) A fan is cheaper than (cheap) an air conditioner.
- (b) Nanotechnology is more popular than (popular) any other subjects today.
- (c) Nothing is more difficult than (difficult) concentrating on a subject we don't like.
- (d) Laptops are more convenient than (convenient) desktop computers.

6. Expand the following compound nouns: (4x1/2=2)

- (a) Technology policy : *Policy of technology*
- (b) Health center : *Centre for health*
- (c) Road transport : *Transport on road*
- (d) Electricity bill : *Bill for electricity*

7. Edit the following: (4x1/2=2)

The atmosphere makes life possible on earth because of its three important functions three very important function; it contains life giving oxygen; it keeps earth warm; and it absorbs the deadly ultraviolet rays from the sun's radiation.

8. Use TWO of the following cause and effect expressions in separate sentences of your own: (2x1=2)

- (a) Lead to - The increase in vehicular population leads to traffic snarls.
- (b) Because of - There was a hue and cry among workers because of the new policy.
- (c) Due to - The roads were flooded due to heavy rain.

9. Define TWO of the following: (2x1=2)

- (a) Stapler
A stapler is a device that is used to fasten papers together with staples.
- (b) Wrist watch
A wrist watch is a small watch worn on strap etc., around wrist.
- (c) Calculator
A calculator is a small electronic device used to make calculations.

10. Complete the following 'If conditional sentences: (2X1=2)

- (a) If u had watched the common wealth games you would have understood the potential of the Indian sportspersons
- (b) If water is heated/ we heat water, it will boil at 100°C.

PART B-(5X16=80 MARKS)

11. Read the passage carefully and answer the questions given at the end of it:

Think of an electric car that can be accelerated swiftly to cruising speed, laptop computers that can recharge in a couple of minutes rather than hours and a generation of super miniature mobiles phones. That's the vision sketched by a pair of scientists in the United

States, unveiling an invention that they say could lead to a smaller, lighter and more power-packed lithium battery than anything available today.

Current batteries made of lithium iron phosphate (LiFePO₄) are good at storing large amounts of electricity but stumble at releasing it. They are better at dispensing the power in a steady flow than at discharging it or gaining it in a sudden burst. As a result, electric cars perform best when travelling along the motorway at a constant speed rather than when they are accelerating, and their batteries take hours to recharge when they run down.

Until now, the finger of blame has pointed at charged lithium atoms, these ions, along with electrons, move too sluggishly through the battery material before arriving at the terminal to deliver their charge-or so it was thought. But two materials experts at the Massachusetts Institute of Technology (MIT) say the problem lies not with the ions but rather at how the ions gain access to nano-scale tunnels that riddle the material and transport the electrons to their destination. Their solution was a lithium phosphate coating that, like a system of feeder roads, nudges the ions towards the tunnels. The ions then zip instantly down the tunnel entrance and to the terminal.

A small cell phone battery can be recharged in just 10 seconds, thanks to the improved ion flow, they report in the British journal Nature. In theory, a large battery that would be used to power a plug-in hybrid electric car could be recharged in just five minutes, compared to up to six or eight hours at present. But this would only be [possible if a beefed-up electricity supply were available.

Unlike other battery materials, the tweaked LiFePO₄ does not degrade as much when repeatedly charged and recharged. This opens the way it is made – “the work could make it into the market place within two to three years,” it said. The invention is the latest claimed advance in the quest to replace conventional electro-chemical batteries which are heavy, lack energy density and take time to recharge.

(a) Choose the correct answer:

(5x1=5)

- (i) What idea do the US scientists visualize?
 - 1) Electronic car
 - 2) Laptop computers
 - 3) Fast recharging of batteries**
 - 4) Super miniature mobile phones
- (ii) What are the present day batteries made of?
 - 1) Lithium iron
 - 2) Lithium iron phosphate**
 - 3) Electro chemical batteries
 - 4) Lithium phosphate
- (iii) What is the major problem with current batteries?
 - 1) They don't give power steadily**

- 2) They store enormous electricity
- 3) They are difficult to use
- 4) They cannot be charged often
- (iv) What solution do the MIT scientists give?
 - 1) Lithium coating
 - 2) Phosphate coating
 - 3) Lithium phosphate coating**
 - 4) Lithium battery coating
- (v) What is new in the solutions?
 - 1) The way in which coating is done
 - 2) The way in which the material is prepared**
 - 3) The way in which recharging is done
 - 4) The way in which researched is carried out

(b) Mention whether the following statements are true or false:

(5x1=5)

- (i) We can imagine a day when very quick recharging of batteries is possible. **-TRUE**
- (ii) Currently available batteries give power steadily. **-FALSE**
- (iii) Materials experts are interested in batteries only. **-FALSE**
- (iv) This research results can be put into commercial use soon. **-TRUE**

(c) Choose the appropriate definition for the words as they are used in the text:

(6x1=6)

(i) Cruising

- (1) Crossing
- (2) Slow
- (3) Miraculous
- (4) **Steady and**

moderate

(ii) Unveiling

- (1) Celebrating
- (2) **Introducing**
- (3) Reducing
- (4) Publishing

(iii) Dispensing

- (1) Giving medicine
- (2) Wasting
- (3) Disturbing**
- (4) Doubling of number

(iv) Beefed-up

- (1) Strengthened**
- (2) Additional

- (3) Modernized
- (4) Badly-maintained

(v) Run-down

(1) Stop functioning

(2) Fall down

(3) Go down

(4) Start functioning

(vi) Sluggishly

(1) Fast

(2) Carefully

(3) Casually

(4) Slowly

12.a) Write a set of instructions for

12 a) Write a set of instructions for operating the ticket vending machine at a railways station.

Instructions for operating the ticket vending machine at a railway station.

- (i) Read the instructions carefully before operating the vending machine.
- (ii) Do understand the meanings of the symbols before pressing.
- (iii) Choose your destination.
- (iv) Press the button for the station you want to travel to.
- (v) Select your ticket type.
- (vi) Select a discounted ticket.
- (vii) Pay your fare by inserting coins or credit cards in the slot provided.
- (viii) Collect your ticket along with any change or receipt for credit card transactions.

(or)

b) Write a set of instructions for using your cell phone safely.

Instructions for using cell phones safely.

- (i) Examine your phone by reading the user manual.
- (ii) Keep your mobile device and its accessories away from small children.
- (iii) Avoid continuous use of mobile phones for long hours as it may cause physical discomfort.
- (iv) Keep the mobile device and its antenna at least 2.5 centimeters (1 inch) from your body, if you do not use a body-worm accessory.
- (v) Avoid answering the phone or using it all while engaged in actual driving.
- (vi) Obey all posted signs when using mobile devices in public areas such as health care facilities or blasting areas.

- (vii) Take it to an authorised service centre, if the mobile device or battery has been submerged in water, punctured or subjected to a severe fall.
- (viii) Do not dispose of your battery or mobile device in a fire.

13. a) Write a letter to your principal asking permission to visit a company related to your branch of study as a part of your educational programme. (16)

25.5.2011

M.Sandeep
II year Electronics & Communication Engineering
XYZ Engineering College
Chennai-48

The Principal
XYZ Engineering College
Chennai-48

Dear Sir,

Subject: Requisition for Industrial Visit – Reg

We, the second year Electronics and Communication Engineering students, would like to visit All India Radio, Chennai, in order to understand the nuances of broadcasting. We have got necessary permission from the authorities concerned. Mr. Javendar and Dr. Reena, Assistant Professors of the ECE Department have agreed to accompany us.

I request you to kindly grant us permission to visit All India Radio, Chennai, on 30.5.2011, (one day only). so that it would be an enlightening experience for us.

Thanking you,

Yours faithfully,

Sd/-

M.Sandeep
(Class Representative)

(OR)

b) Assume that you are the Vice-Chancellor of a well-known University. Write letter of acceptance to the Secretary of the Students of an Engineering college for inaugurating the annual day function of your college. (16)

**CENTRAL TECHNICAL UNIVERSITY
Chennai-48**

Dr. R. V. Ramanujan

Vice Chancellor

Mr.K.Praveen kumar
Secretary
Students' Union
XYZEngineeringCollege
Chennai-35.

Dear Mr.Praveen

Thank you for your invitation to inaugurate the annual day function of your college.

I feel glad to accept your invitation and I would love to inaugurate your annual day and address the budding engineers.

Thank you for transportation arrangements. I would be ready in my office at 9.30am on that day.

Best regards,

Sincerely,

Sd/...

Dr.R.V.Ramanujam.

14.a)Write a paragraph of 200 words describing your computer practice laboratory (16)

Our computer lab is typically a room with many computers networked and which could be accessed by many at a time. The computers are set up in the room that is air-conditioned in order to prevent dust settling on the computers keyboards. The lab is connected to a server. The server is uploaded with software, required for education and research purposes. All the computers are provided with UPS so that

The users can have uninterrupted power supply. Printers, Scanners and other peripherals augment the lab set up. Users are instructed to leave their footwear and other accessories outside before entering. They are usually provided with a password with which they can access the operations. Users can log in, finish their work and log out before leaving. In order to avoid virus, users are barred from using CD, Pendrives etc...The computer practice labs are usually under the supervisions of computer technicians and system operators. In general, computer labs are used to give practice to courses related to operation, languages like C, C+, etc...., and softwares like Auto CAD, Matlab, etc. Now, it is being used for learning languages also. This lab helps users to learn a new language with assistance from the system itself.

(OR)

b) Write a coherent paragraph of 200 words describing your difficulties in adjusting in to the new situation when you joined the college. (16)

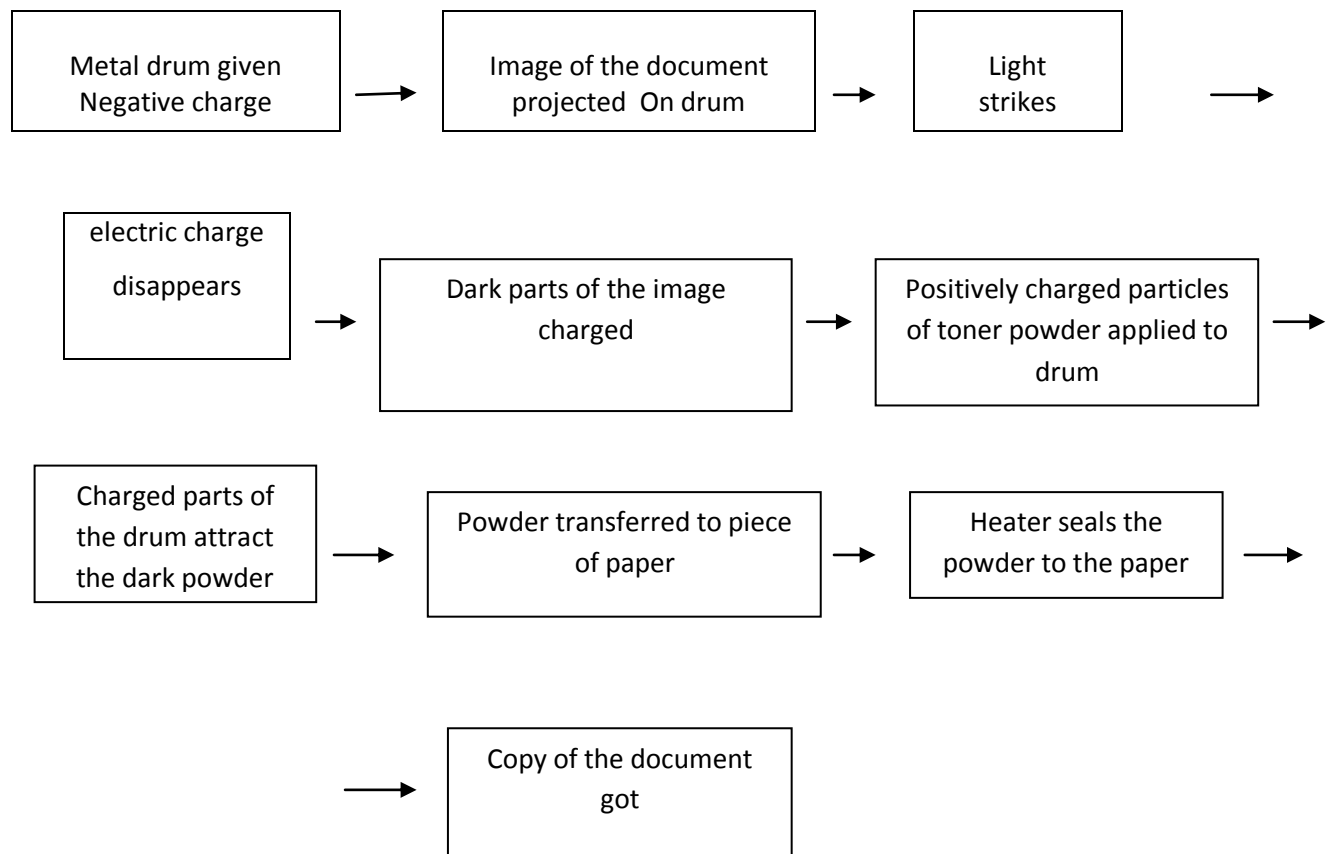
Though it is a happy occasion, sometimes the transition from living with parents attending a local school to going away for college studies to a new environment may be a harrowing experience .But for me, before going to college, I considered it a celebration and talked about my college. I had visited the college during the open house. I had learned about the various activities related to sports ,culturals and other student oriented information. I packed everything in advance to create a home-like atmosphere in my room. When I entered the college, I made all efforts to befriend my roommates. We shared various interesting matters and spent the night talking together. The next day, I got up early and got ready for attended the classes. After tea breakfast, we all went as a group to our class. The teachers came and introduced themselves, and made us tell about us. They were friendly and tried to make us comfortable.

As the first few days could pave the way for my happy life in college, I took extra steps to mentally and emotionally fit in. I spent time knowing new friends, and tried to participate in the community activities. I visited the bank with my friends and started an account and also took part in some sports. I attended the classes regularly and sat in the front row to avoid distractions. In the first few months, I used to visit my hometown once in a fortnight. On certain occasions, my parents visited me. I stayed connected with my friends back home through email and phone. My positive attitude helped me to overcome the initial inhibition and lead a happy life in the college.

15. Given below are two passages. Read one of them to draw a flow chart.

a) The process of making photocopies

Static electricity enables a photocopier to produce almost instant copies of document. At the heart of the machine is a metal drum which is given negative charge at the beginning of the copying cycle. The optical system then projects an image of the document on the drum. The electric charge disappears where light strikes the metal surfaces, so only dark parts of the image remain charged. Positively charged particles of toner powder are then applied to the drum. The charged parts of the drum attract the dark powder, which is then transferred to a piece of paper. A heater seals the powder to the paper, and a warm copy of the document emerges from the photocopier.



b) The process of making bread

Bread is eaten in most parts of the world, but not everyone knows how to bake it. I am going to show you the steps involved in baking bread.

First, measure the correct amount of flour and warm water. Next, mix the flour and water together in a mixing bowl. Add yeast, salt and sugar. Next, knead the mixture until it feels almost dry. Leave the mixture for about an hour in a warm place. It will grow in size. After this, knead the mixture again. Make sure the mixture is not sticky when you touch it. Then leave the dough in a baking tin for about an hour to give it time to rise. Finally, the dough is put into a preheated oven for about forty minutes.

It can be seen that making bread is not difficult as long as the correct procedure is followed. You will love the smell of your freshly-baked bread.

